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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/044,936	01/15/2002	Takayuki Tsukimoto	03500.016112	1495	
5514	7590 02/18/2005		EXAMINER		
FITZPATRICK CELLA HARPER & SCINTO			BUDD, MAR	BUDD, MARK OSBORNE	
30 ROCKEFELLER PLAZA NEW YORK, NY 10112			ART UNIT	PAPER NUMBER	
11211 10112		2834			

DATE MAILED: 02/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/044,936	TSUKIMOTO ET AL.			
		Examiner	Art Unit			
		Mark Budd	2834			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
THE MAILING C - Extensions of time in after SIX (6) MONTH - If the period for reply - If NO period for reply - Failure to reply within Any reply received by	STATUTORY PERIOD FOR REPLY DATE OF THIS COMMUNICATION. nay be available under the provisions of 37 CFR 1.1 HS from the mailing date of this communication. It is specified above is less than thirty (30) days, a reply is specified above, the maximum statutory period on the set or extended period for reply will, by statute by the Office later than three months after the mailing adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
	Responsive to communication(s) filed on <u>19 August 2004</u> . This action is FINAL . 2b) This action is non-final.					
3)☐ Since this	,					
Disposition of Clair	ms	•				
4a) Of the 5)⊠ Claim(s) <u>3</u> 6)⊠ Claim(s) <u>1</u> 7)□ Claim(s) _	-17,20-27 and 30-32 is/are pending above claim(s) is/are withdraw 5,5,7,10,11,13,15,17,21,23,25,27 and 26 is is/are objected to are subject to restriction and/or	wn from consideration. <u>f 30-32</u> is/are allowed. s/are rejected.				
Application Papers						
10)∭ The drawin Applicant m Replaceme	cation is objected to by the Examine g(s) filed on is/are: a) according any not request that any objection to the onto drawing sheet(s) including the correct redeclaration is objected to by the Examination is objected to be a by the Examination is objected to by the Examination is objected to be a by the Examination is objected to by the Examination is objected to be a by the Examination is objected to be a by the Examination is objected to be a by the Exam	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.	.S.C. § 119					
12) Acknowled a) All b) Cert 2. Cert 3. Cop	gment is made of a claim for foreign Some * c) None of: ified copies of the priority documents ified copies of the priority documents ies of the certified copies of the priorication from the International Bureauched detailed Office action for a list of the detailed Office action for	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No d in this National Stage			
Attachment(s) 1) Notice of Reference 2) Notice of Draftspers 3) Information Disclos Paper No(s)/Mail D	son's Patent Drawing Review (PTO-948) ure Statement(s) (PTO-1449 or PTO/SB/08)	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:				

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The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1, 2, 4, 8, 9, 12, 14, 16, 20, 22, 24 and 26 are rejected under 35

U.S.C. 112, first paragraph, as failing to comply with the written description requirement.

The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. ***

These claims as amended allow for the possibility of operation in only a single mode. The original disclosure (claims specification and drawings) do not seem to support operation in only a single mode. It is the combination of modes that produce a usable (elliptical) motion at the output end. Note e.g. application arguments in the amendment filed 8-19-04 wherein it was argued that the references failed to teach a plurality of modes (each acting in a same direction) as the patentably distinguishing feature in these claims.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1, 2, 6 and 8 are rejected under 35 U.S.C. 102(a) as being anticipated by Tsukimoto.

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Note Tsukimoto figures 3, 4, 7 and 9-29 which show a vibration element comprising a first elastic member (b2), a piezo element (a1, a2, etc) located between the elastic members producing at least one vibration mode. The different relative ratio is apparatus from e.g. fig. 1. If the device operates in a single mode, these is "no same difference of displacement". Such difference can only occur with multiple simultaneous modes.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tsukimoto in view of Endo or Fujimura.

Tsukimoto teach the vibration element except for the relative sizes of the mass diameters. However, optimization of a known device (e.g. thru routine experimentation) has long been held to be within the skill expected of the routineer. Also, each of Endo (note #14 v 32a, 2b, 2c) and Fujimura (#4 v #6) teach either the top or bottom mass can be a different diameter. Thus to select relative sizes of a first mass and second mass for Uchikawa or Fujimura would have been obvious to one of ordinary skill in the art.

Claims 3, 5, 7, 10, 11, 13, 15, 17, 21, 23, 25, 27 and 30-32 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark O. Budd whose telephone number is (571)272-2019. The examiner can normally be reached on Mon-Thursday from 6am to 4pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor R. Ramirez, can be reached on ***. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Budd/ds

02/16/05

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